

**S6 Table. Statistical analysis of the phenotypic behavior of BE020 compared to its gene-edited variants.**

P-values	ANOVA		POSTHOC TUKEY test					
	BE020 vs gene edited BE020	BE020 vs BE020_A	BE020 vs BE020_B	BE020 vs BE020_C	BE020_A vs BE020_B	BE020A vs BE020_C	BE020_B vs BE020_C	
Ethanol	0.560	1.000	0.158	0.987	0.159	0.987	0.117	
Glycerol	0.085	0.413	0.647	0.605	0.951	0.970	1.000	
SO <sub>2</sub>	0.266	0.750	0.088	0.992	0.224	0.875	0.112	
Acetaldehyde	0.221	0.674	0.751	0.912	0.998	0.949	0.980	
Ethyl acetate	0.774	0.996	0.151	0.489	0.183	0.405	0.040	
Ethyl propionate	0.557	0.888	0.010	0.945	0.007	0.998	0.007	
Propyl acetate	0.896	0.983	0.477	0.857	0.342	0.969	0.225	
Isoamyl alcohol	0.613	0.881	0.835	0.504	0.482	0.253	0.899	
isobutyl.acetate	0.706	0.653	0.636	0.534	0.208	0.994	0.165	
ethyl.butyrate	0.768	1.000	0.600	0.978	0.552	0.991	0.428	
Isopentyl acetate	0.933	0.994	0.943	0.999	0.858	0.999	0.906	
Ethyl hexanoate	0.400	0.754	0.418	0.996	0.886	0.650	0.344	
Phenethyl alcohol	0.293	0.007	0.546	0.996	0.017	0.008	0.653	
Ethyl octanoate	0.836	1.000	0.767	0.971	0.756	0.975	0.555	
Phenethyl acetate	0.570	0.682	1.000	0.995	0.690	0.797	0.996	
Ethyl decanoate	0.702	1.000	0.987	0.930	0.979	0.909	0.992	
4VG	0.000***	0.000***	0.000***	0.000***	0.628	0.625	1.000	

Column two represents the P-values obtained with ANOVA. Column three to twelve represent the obtained P-values of a post-hoc Tukey test. All statistical analyses were conducted in R, within the multcomp package (\* P-value < 0.05; \*\* P-value < 0.01; \*\*\* P-values < 0.001).